

CLAIMS

1. A method for reprogramming bidirectional objects containing a common key, at least two objects being paired to allow the sending of a command from one object of the pair to the other object of the pair and the execution of the command by the other object; the method comprises the steps of:

- providing the objects with a new common key; then
- when a command is sent from one object to another object with which it is paired, verification that the two objects contain the new common key, and
- refusal by the other object to execute the command if the two objects do not contain the new common key.

2. The method of claim 1, characterized in that the step of verification for two given objects is implemented only when the first command is given following provision of the new common key.

3. The method of claim 1 or 2, characterized in that the step of provision of the new common key comprises:

- the generation of a new common key and
- the transmission of the new common key generated.

4. The method of claim 3, characterized in that the step of generation is carried out using a single object.

5. The method according to claim 3, characterized in that the step of generation is carried out using two objects.

6. The method of claim 3, 4, or 5, characterized in that the step of transmission comprises a point-to-multipoint transmission.

7. The method of one of claims 3 to 6, characterized in that the step of transmission comprises a point-to-point transmission.

8. The method of claim 7, characterized in that the point-to-point transmission comprises an action by the user on each point.

5 9. The method of claim 3, 4 or 5, characterized in that the step of transmission comprises:

- a point-to-point transmission in a sub-group of the objects;
- a point-to-multipoint transmission to another sub-group of the objects.

10 10. The method of one of claims 3 to 9, characterized in that the transmission step comprises, when the new common key of an object is transmitted to another object, verification that the two objects contain the old common key.

11. An operating program for a bidirectional object adapted to store at least one common key and at least one piece of information on pairing, comprising:

- 15 (a) a routine of reception of a new common key;
- (b) a routine of reception of a command;
- (c) a routine of verification for a command received from a paired transmitter object of the presence of the common key in the transmitter object, and
- (d) a routine of refusal to execute the command if the verification is negative.

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12. The program of claim 11, characterized in that the routine of verification for a given pairing is implemented only when the first command is received.

25 13. An operating program for a bidirectional object adapted to store at least one common key and at least one piece of information on pairing, comprising:

- (a) a routine of reception of a new common key;
- (b) a routine of transmission of a command to a targeted paired object;
- (c) a routine of verification of the presence of the common key in the targeted object.

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14. The program of claim 13, characterized in that the routine of verification for a given pairing is implemented only when the first command is transmitted.

15. The program of one of claims 11 to 14, characterized in that it also comprises a routine of generation of a new common key.

5 16. The program of claim 15, characterized in that the routine of generation comprises a sub-routine of transmission of a command to generate the common key to another object.

10 17. The program of one of claims 11 to 16, characterized in that it also comprises a routine of transmission of a new common key to another object.

18. The program of one of claims 11 to 17, characterized in that it also comprises a routine of transmission of a new common key to several other objects.

15 19. A bidirectional object, having

- a stage of reception;
- a stage of transmission
- a logical unit controlling the stage of reception and the stage of transmission,
and
- a memory containing a program according to one of claims 11 to 18.